

Meeting Notes: Community Advisory Group - Aerojet Superfund Issues, January 24, 2007

1. Attendees

Alex MacDonald (Regional Water Quality Control Board), Charles Berrey (EPA), Kevin Mayer, (EPA), Jackie Lane (EPA), Janis Heple, Jean Young (SCWA), Angel Ball, Greg Ball, Jenny Byars, Michael Girard (Aerojet), Paul Schubert (GSWC), Tom Gray (FOWD), Greg Voetsch, Gary Riley (US EPA), Atla Tura (Sacramento Urban Creeks Council), Chris Fennessy (Aerojet), Tricia Carter (Recorder, CH2M HILL),

2. Approval of Meeting Minutes

The November meeting minutes were accepted as final. No comments were provided.

3. Aerojet Community Updates: Mike Girard, Aerojet

Mike Girard provided several dates for upcoming meetings and major milestones:

Get KA (Cordova Church of Christ)

- The Rancho Cordova planning department has gone through the CEQA process and has developed a mitigated negative declaration.
- There is a 30-day public comment period on the mitigated negative declaration from January 19th through February 20th, 2007.
- A public meeting will be conducted at the City Council meeting on March 5th (actual hearing for the appeal).

Alta Tura asked why the City denied the application. Mr. Girard noted that there were concerns from residents in the area regarding noise and aesthetics; therefore, the planning commission denied the project. The current application that went to the planning department is now going to City Council for their consideration.

Angel Ball asked if the City Council members are educated and if they understand the technical issues associated with GET KA. Greg Ball suggested that Aerojet should spend time with the council members to help them make a good decision. Mike Girard noted that it would be beneficial for the public (CAG members) to speak favorably about the project as well, and not just Aerojet. Correspondence could be in the form of e-mails, petitions, etc. Janis reminded the group of Larry Ladd's concern that this will lead to wellhead treatment (concern regarding direct reuse) and that the GET facility could be used for human consumption. It was noted that in order for the water from any GET facility to be used for potable purposes, the Department of Health Services would need to permit its use and that would only occur after considering public comment.

GET L, Ancil Hoffman – CWD

The Carmichael Water District will release a negative declaration (environmental documents) next week and a corresponding public meeting will be conducted. The water district staff will present the document to the Carmichael Water Board on February 26th for its consideration for adoption. On March 3rd, a meeting will be conducted to have the Sacramento County Board of Supervisors to approve a lease between Carmichael Water District and the County for property in Ancil Hoffman Park for the site of GET L.

Charles Berrey noted that a portion of the groundwater remedy in OU-5 is being implemented early under the Partial Consent Decree because the ROD for OU-5 has been delayed (a soil component was added to the ROD) and the regulatory agencies determined that it was not prudent to wait until the ROD was completed.

GET L1 - Bahamont

Construction on this project has begun.

4. Update from the November 2006 Meeting Regarding Major Milestones in OU-3 and Outside of OU-3: Charles Berrey, EPA

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Status Aerojet Operable Unit 3 Since 11/15/06 Meeting

- 11/16/06 The Agencies requested Aerojet to submit a Work Plan "Testing and monitoring of the GET E/F System to Assess Plume Containment in the Central Region and Improved Capture in the Southwest and Southeast Regions" by 01/11/07. Aerojet responded with a letter dated 01/11/07 requesting clarification and concurrence with Work Plan elements. The Agencies are preparing a response.
- 11/16/06 The Agencies approved accelerating the Area 4 Groundwater Extraction and Treatment (GET) Unit L1 at Bajamont by two months to 09/07/07 and delaying GET L at Ancil Hoffman Park by 10 months to 08/05/08 due the delay in obtaining a lease for the treatment plant land from the County of Sacramento. The GET L1 design due 12/29/06 was submitted 01/12/07 because of Aerojet's decision to use surplus American River GET N-Nitrosodimethylamine (NDMA) treatment equipment. The Agencies notified Aerojet that the GET L1 system must be operational by 09/07/07. The GET L1 Prefinal/Final design drawings were submitted 01/12/07 and the Agencies are reviewing.
- 11/28/06 The Agencies approved Aerojet's 10/16/07 request for further extension to submission of the Short and Long-Term Water Replacement Contingency Plans (SWRCP & LWRCP) to 02/12/07 based on no objections to the extension from California American.
- 12/04/06 EPA issued a letter to Aerojet advising changes in EPA's Program Coordinators: On 12/01/06 PCD items change from Penny McDaniel to Gary Riley; On 01/31/07 OU3 & 5 change from Charles Berrey to Kevin Mayer.
- 12/12/06 The Agencies granted Aerojet's 11/30/06 Area 3 design extension request from 11/06/06 to 05/01/07 based on field data from Rancho Cordova Water Service wells not being completed until 01/19/07. The Agencies also granted an extension for GET K start-up from 08/10/07 to 02/18/08 based on the

delay in obtaining City of Rancho Cordova approval for the treatment plant location (Aerojet's current schedule is based on a 12/18/06 City approval for church property subdivision which did not occur. Aerojet's appeal is now scheduled to go before the Rancho Cordova City Counsel 03/05/07).

- 12/20/06 The Agencies commented on Aerojet's 11/09/06 GET HA Effectiveness Evaluation Area 1 and requested resubmission 04/30/07. In addition the Agencies asked for a design to control groundwater contamination by monitoring wells 30214 and 30215 (see attached figure).
- 01/17/07 The Agencies approved Aerojet's NDMA Reformation Testing Report submitted 12/18/06. NDMA is not expected to be recreated from GET J effluent to the American River.

Other Aerojet Environmental Efforts Since 11/15/06 Meeting

- 11/28/06 The Agencies approved as modified the 2006/7 Groundwater Monitoring Plan and Sitewide Plume Maps submitted 10/24/06. On 12/21/06 Aerojet submitted corrected tables and figures. On 01/17/07 the Agencies made corrections that had been omitted to Table 6-1 and accepted the four composite plume figures marked draft as final.
- 12/07/06 The Agencies commented on Aerojet's Financial Assurance Report submitted 9/22/06.
- 12/22/06 The Agencies disapproved the Perimeter Operable Unit Zone 1 Proposed Hydraulic Containment System Design and requested resubmission by 02/20/07 (e.g., modeling data, calibration information and the impact on the range of groundwater extracted).

Several items listed above were discussed as summarized:

11/16/06 – Groundwater modeling will be evaluated to determine the best location for two additional extraction wells in the southern part of the inner-barrier extraction field. This will eliminate the need to pursue the use of the County's well No. 17 on the near Sunrise and White Rock Roads.

GET L1 will be up and running by September. A one million gallon storage tank will be constructed under the GET L treatment plant and the water from the tank will be used to water the golf course. Tom Gray asked if the use of this surplus UV treatment system will have an impact on future plans to expand the ARGET facility. Charles noted that this would not have an impact on future expansion.

11/28/06 – There will be a final settlement with the last purveyor.

12/12/06 – Two options for extracting polluted groundwater and containing the plume include: 1) use of dedicated extraction wells and 2) use of existing wells. Additional monitor wells are needed to determine plume extent and to provide information to show how effective the extraction wells are in containing the plume.

Janis asked Jean about the issues regarding the State Water Board contesting the senior water rights that came out of the County's EIR. Jean agreed that putting water in the river and taking it out is an existing issue. Water cannot be taken out of the river from June until October. This will impact the replacement water supply.

5. General Aerojet Cleanup Overview: Alex MacDonald, RWQCB

All items as part of this overview were addressed by the previous agenda item. This agenda item was not discussed.

6. Aerojet Source Site Investigation Update: Chris Fennessy, Aerojet

Mr. Fennessy provided a background on the source areas. The source areas were investigated in the early 1990's. A reconnaissance survey was conducted. The focus, however, shifted to protecting the water supply when wells became impacted and resources were reallocated. The investigation within the source area started again in 2004 under Aerojet's partial consent decree. A program plan modification report was prepared to identify how to manage the reporting and cleanup.

Mr. Fennessy reviewed the operable units that include the Boundary OU, Island OU, Eastern OU, Central OU, and Cavitt Ranch OU. These five OUs address over 300 potential sources. The Boundary (Aerojet's priority OU) and the Island OU (agencies priority OU) will be investigated first because they are significant source areas with the highest concentrations, and there is immediate interest to develop the property in the Boundary OU. The remaining OUs will be addressed in the following order: the Eastern OU, followed by the Central OU, and finally, the Cavitt Ranch OU.

The field investigation for the Boundary OU is 90 to 95 percent complete. An investigation report will be prepared for the Boundary OU, followed by an evaluation of remedial alternatives. A work plan for the Island OU has been prepared for various treatability studies. These studies will be conducted because technologies are not yet available that have been demonstrated to be effective in remediating the extremely high concentrations and mix of pollutants found in the Island OU. Currently, pilot studies are in operation within the Island OU. These studies will help determine a way to feasibly control the release of TCE, perchlorate and other pollutants at the source area. A sampling analysis plan (SAP) is being prepared for the Island OU and is scheduled to be finalized by June 2007.

7. Next Meeting

Next meeting: Wednesday, March 28, 2007, City Hall, 2729 Prospect Park Drive, Rancho Cordova, 7 p.m. to 9 p.m.